

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 06/04/2022 Revision date: 26/01/2023 Supersedes version of: 03/08/2022 Version: 1.2

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Trade name : Z-50 CALCIUM

Product group : Mixtures

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer

Whitmore Manufacturing LLC 930 Whitmore Drive 75087 Rockwall, Texas

USA

T 1.972.771.1000

Regulatory@whitmores.com - www.jetlube.com

Distributor

Whitmore Europe Limited

Unit 9

Foster Avenue, Woodside Park Industrial Estate

Dunstable, Bedfordshire, LU5 5TA

United Kingdom T +44 1707 379870

Regulatory@whitmores.com - www.whitmores.com

#### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week

Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1.703.527.3887

(collect calls accepted)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	Chemtrec - United Kingdom	London	Local (City) +44 20 3807 3798	
United Kingdom	Chemtrec - United Kingdom		Local (National) +44 870 820 0418	

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07

GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

P391 - Collect spillage.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Zinc (7440-66-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
zinc oxide (1314-13-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
lead monoxide (1317-36-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
cadmium oxide, stabilized (1306-19-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
chalk (1317-65-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
mica (12001-26-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
talc (14807-96-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
calcium oxide (1305-78-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
calcium carbonate (471-34-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
magnesium oxide (1309-48-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Calciumhydroxide(Ca(OH)2) (1305-62-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
silicon dioxide, amorphous (7631-86-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
lead monoxide(1317-36-8)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
cadmium oxide, stabilized(1306-19-0)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy naphthenic (Note L)	CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7	40.439806	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc	CAS-No.: 7440-66-6 EC-No.: 231-175-3 EC Index-No.: 030-001-01-9	37.183 – 39.14	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Fluorite (CaF2) substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 14542-23-5	9.31056	Not classified
mica substance with national workplace exposure limit(s) (GB)	CAS-No.: 12001-26-2 EC-No.: 310-127-6	4.6827 – 4.72527	Not classified
zinc oxide	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7	< 1.957	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
talc substance with national workplace exposure limit(s) (GB)	CAS-No.: 14807-96-6 EC-No.: 238-877-9	≤ 1.58	Not classified
calcium oxide substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 1305-78-8 EC-No.: 215-138-9	1.5484 – 1.58	Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335
Calciumhydroxide(Ca(OH)2) substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 1305-62-0 EC-No.: 215-137-3	0.3451104 – 0.3487053	Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
Lubricating oils, petroleum, hydrotreated spent	CAS-No.: 64742-58-1	0.171 – 0.19	Not classified
chalk substance with national workplace exposure limit(s) (GB)	CAS-No.: 1317-65-3 EC-No.: 215-279-6	≥ 0.189732	Not classified
Fatty acids, C16-18	CAS-No.: 67701-03-5 EC-No.: 266-928-5	0.11338002	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
lead monoxide substance listed as REACH Candidate (Lead monoxide (lead oxide)) substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 1317-36-8 EC-No.: 215-267-0 EC Index-No.: 082-001-00-6	≤ 0.07828	Repr. 1A, H360Df Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
calcium carbonate substance with national workplace exposure limit(s) (GB)	CAS-No.: 471-34-1 EC-No.: 207-439-9	0.033936685 - 0.037891075	Not classified
magnesium oxide substance with national workplace exposure limit(s) (GB)	CAS-No.: 1309-48-4 EC-No.: 215-171-9	0.03303796 – 0.033577195	Not classified
cadmium oxide, stabilized substance listed as REACH Candidate (Cadmium oxide) substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 1306-19-0 EC-No.: 215-146-2 EC Index-No.: 048-002-00-0	≤ 0.023484	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation), H330 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361fd STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
quartz, 1%≤conc respirable crystalline silica<10% substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	0.00158 – 0.0079	Not classified
silicon dioxide, amorphous substance with national workplace exposure limit(s) (GB)	CAS-No.: 7631-86-9 EC-No.: 231-545-4	0 – 0.00539235	Not classified

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
lead monoxide	CAS-No.: 1317-36-8 EC-No.: 215-267-0 EC Index-No.: 082-001-00-6	( 0.5 ≤C < 100) STOT RE 2, H373 ( 2.5 ≤C < 100) Repr. 2, H361f

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and

asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact : Eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Exercise caution. Spill area may be slippery. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

#### 7.3. Specific end use(s)

No additional information available

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## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

Iead monoxide (1317-36-8)		
J - Indicative Occupational Exposure Limit (IOEL)		
DEL TWA	0.15 mg/m³	
nited Kingdom - Occupational Exposure Limits	0.13 mg/m-	
EL TWA (OEL TWA) [1]	0.15 mg/m³	
admium oxide, stabilized (1306-19-0)		
U - Indicative Occupational Exposure Limit (IOEL		
EL TWA	0.001 mg/m³ (Inhalable fraction. Limit value 0,004 mg/m³ until 11 July 2027. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine.)	
nited Kingdom - Occupational Exposure Limits		
ocal name	Cadmium oxide	
EL TWA (OEL TWA) [1]	0.025 mg/m³ fume (as Cd)	
EL STEL (OEL STEL)	0.05 mg/m³ fume (as Cd)	
emark	Carc (Capable of causing cancer and/or heritable genetic damage)	
egulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
uorite (CaF2) (14542-23-5)		
U - Indicative Occupational Exposure Limit (IOEL)		
ocal name	Fluorine	
PEL TWA [ppm]	1 ppm	
DEL STEL	3.16 mg/m³	
DEL STEL [ppm]	2 ppm	
egulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
J - Biological Limit Value (BLV)		
ocal name	Fluorine and inorganic fluorides	
_V	8 mg/l Parameter: F - Medium: urine - Sampling time: end of shift	
egulatory reference	SCOEL List of recommended health-based BLVs and BGVs	
nited Kingdom - Occupational Exposure Limits		
ocal name	Fluorine	
EL TWA (OEL TWA) [1]	1.6 mg/m³	
EL TWA (OEL TWA) [2]	1 ppm	
EL STEL (OEL STEL)	1.6 mg/m³	
EL STEL (OEL STEL) [ppm]	1 ppm	
egulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
chalk (1317-65-3)		
United Kingdom - Occupational Exposure Limits		
ocal name	Calcium carbonate (Limestone, Marble)	
EL TWA (OEL TWA) [1]	10 mg/m³ total inhalable 4 mg/m³ respirable	

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1 (10001 00 5)		
mica (12001-26-2)		
United Kingdom - Occupational Exposure Limits		
Local name	Mica	
WEL TWA (OEL TWA) [1]	0.8 mg/m³ respirable 10 mg/m³ total inhalable	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
talc (14807-96-6)		
United Kingdom - Occupational Exposure Limits		
Local name	Talc	
WEL TWA (OEL TWA) [1]	1 mg/m³ respirable dust	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
calcium oxide (1305-78-8)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Calcium oxide	
IOEL TWA	1 mg/m³ (Respirable fraction)	
IOEL STEL	4 mg/m³ (Respirable fraction)	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	
United Kingdom - Occupational Exposure Limits		
Local name	Calcium oxide	
WEL TWA (OEL TWA) [1]	2 mg/m³ 1 mg/m³ Respirable fraction	
WEL STEL (OEL STEL)	4 mg/m³ Respirable fraction	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
calcium carbonate (471-34-1)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³	
magnesium oxide (1309-48-4)		
United Kingdom - Occupational Exposure Limits		
Local name	Magnesium oxide	
WEL TWA (OEL TWA) [1]	4 mg/m³ (as Mg) fume and respirable dust 10 mg/m³ (as Mg) inhalable dust fume	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Silica crystaline (Quartz)	
IOEL TWA	0.05 mg/m³ (respirable dust)	
Remark	(Year of adoption 2003)	
Regulatory reference	SCOEL Recommendations	
United Kingdom - Occupational Exposure Limits		
Local name	Silica	
WEL TWA (OEL TWA) [1]	0.1 mg/m³ respirable crystalline	
Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

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Calciumhydroxide(Ca(OH)2) (1305-62-0)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Calcium dihydroxide		
IOEL TWA	1 mg/m³ (Respirable fraction)		
IOEL STEL	4 mg/m³ (Respirable fraction)		
Regulatory reference COMMISSION DIRECTIVE (EU) 2017/164			
United Kingdom - Occupational Exposure Limits			
Local name	Calcium hydroxide		
WEL TWA (OEL TWA) [1]	5 mg/m³ 1 mg/m³ Respirable fraction		
WEL STEL (OEL STEL)	4 mg/m³ Respirable fraction		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
silicon dioxide, amorphous (7631-86-9)			
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	6 mg/m³ 2.4 mg/m³		

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

## 8.2.2. Personal protection equipment

## 8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Neoprene or nitrile rubber gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	0.3 mm - 0.6 mm		

#### 8.2.2.3. Respiratory protection

### Respiratory protection:

No respiratory protection needed under normal use conditions

#### 8.2.2.4. Thermal hazards

No additional information available

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#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : Grey.
Appearance : Paste.

Odour : petroleum-like odour.

Odour threshold : Not available Melting point : Not available Freezing point : Not applicable : Not available Boiling point Flammability : Not available Explosive limits : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : > 121 °C Auto-ignition temperature : Not applicable Decomposition temperature : Not available : Not available pΗ pH solution : Not available : > 22 mm<sup>2</sup>/s @ 40°C Viscosity, kinematic Solubility : insoluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available · Not available Density Relative density : Not available Relative vapour density at 20°C : Not applicable

### 9.2. Other information

Particle size

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

: Not available

### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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Zinc (7440-66-6)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 5.41 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.7 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))
lead monoxide (1317-36-8)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.05 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h
cadmium oxide, stabilized (1306-19-0)	
LD50 oral rat	2330 mg/kg bodyweight (Rat, Read-across, Oral)
LD50 oral	72 mg/kg
LC50 Inhalation - Rat	0.056 mg/l (4 h, Rat, Male / female, Read-across, Inhalation (aerosol), (Cd 2+))
LC50 Inhalation - Rat (Dust/Mist)	0.012 mg/l/4h
ATE CLP (oral)	72 mg/kg bodyweight
ATE CLP (gases)	100 ppmv/4h
ATE CLP (vapours)	0.056 mg/l/4h
ATE CLP (dust,mist)	0.012 mg/l/4h
chalk (1317-65-3)	
LD50 oral rat	6450 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg
ATE CLP (oral)	6450 mg/kg bodyweight
mica (12001-26-2)	
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
talc (14807-96-6)	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2.1 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 15 day(s))
LC50 Inhalation - Rat (Dust/Mist)	> 2.1 mg/l Source: ECHA
calcium oxide (1305-78-8)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)

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calcium oxide (1305-78-8)	
LD50 oral	5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: other:US Federal Register 38: 187, Part 1500, Section 41, 1973.
ATE CLP (oral)	5000 mg/kg bodyweight
calcium carbonate (471-34-1)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
magnesium oxide (1309-48-4)	
_D50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit, Literature study, Dermal)
Calciumhydroxide(Ca(OH)2) (1305-62-0)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2500 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 6.04 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s))
silicon dioxide, amorphous (7631-86-9)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)
_D50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
Fatty acids, C16-18 (67701-03-5)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 434 (Acute Dermal Toxicity - Fixed Dose Procedure)
LC50 Inhalation - Rat	> 0.1621 mg/l air Animal: rat
kin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
zinc oxide (1314-13-2)	
Н	6.07 – 6.55 (2.9 mg/l, 20 °C, OECD 105: Water Solubility)
lead monoxide (1317-36-8)	
ρΗ	9.9 (100 g/l)
cadmium oxide, stabilized (1306-19-0)	
DΗ	No data available in the literature
chalk (1317-65-3)	
DH .	8.5 – 9
talc (14807-96-6)	
DH	9
calcium oxide (1305-78-8)	
` '	

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coloium conhanata (474-24-4)	
calcium carbonate (471-34-1)	8 0 (40 % 20 %)
рН	8 – 9 (10 %, 20 °C)
magnesium oxide (1309-48-4)	44 (40.00)
рН	11 (10 %)
quartz, 1%≤conc respirable crystalline silica<	
рН	5 – 8 (40 %, 20 °C)
Calciumhydroxide(Ca(OH)2) (1305-62-0)	
pH	≥ 12.4 Temp.: 20 °C Concentration:
silicon dioxide, amorphous (7631-86-9)	
рН	6.5 – 7.5 (5 %)
-	Causes serious eye irritation.
zinc oxide (1314-13-2)	
pH	6.07 – 6.55 (2.9 mg/l, 20 °C, OECD 105: Water Solubility)
lead monoxide (1317-36-8)	
рН	9.9 (100 g/l)
cadmium oxide, stabilized (1306-19-0)	
рН	No data available in the literature
chalk (1317-65-3)	
pH	8.5 – 9
talc (14807-96-6)	
pH	9
calcium oxide (1305-78-8)	
рН	12.8 Temp.: 25 °C Concentration: 1,65 g/L
calcium carbonate (471-34-1)	
рН	8 – 9 (10 %, 20 °C)
magnesium oxide (1309-48-4)	
рН	11 (10 %)
quartz, 1%≤conc respirable crystalline silica<	
pH	5 – 8 (40 %, 20 °C)
Calciumhydroxide(Ca(OH)2) (1305-62-0)	
pH	≥ 12.4 Temp.: 20 °C Concentration:
silicon dioxide, amorphous (7631-86-9)	
pH	6.5 – 7.5 (5 %)
<u> </u>	Not classified (Based on available data, the classification criteria are not met)
	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity :	Not classified (Based on available data, the classification criteria are not met)
lead monoxide (1317-36-8)	
IARC group	2A - Probably carcinogenic to humans
cadmium oxide, stabilized (1306-19-0)	
IARC group	1 - Carcinogenic to humans
talc (14807-96-6)	
IARC group	3 - Not classifiable
11.11.0 9.0up	O THOS GLOCOLINADIO

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quartz, 1%≤conc respirable crystalline silio	-2<10% (14808-60-7)
IARC group	1 - Carcinogenic to humans
silicon dioxide, amorphous (7631-86-9)	. Salomogeme to namane
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
calcium oxide (1305-78-8)	
STOT-single exposure	May cause respiratory irritation.
Calciumhydroxide(Ca(OH)2) (1305-62-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Zinc (7440-66-6)	
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
zinc oxide (1314-13-2)	
LOAEL (dermal, rat/rabbit, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
lead monoxide (1317-36-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
cadmium oxide, stabilized (1306-19-0)	
STOT-repeated exposure	Causes damage to organs (bone, lungs, kidneys) through prolonged or repeated exposure (if inhaled).
calcium oxide (1305-78-8)	
LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.413 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
calcium carbonate (471-34-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Fatty acids, C16-18 (67701-03-5)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Z-50 CALCIUM	
Viscosity, kinematic	> 22 mm²/s @ 40°C
Zinc (7440-66-6)	
Viscosity, kinematic	> 72.464 mm²/s
cadmium oxide, stabilized (1306-19-0)	·
Viscosity, kinematic	Not applicable (solid)
chalk (1317-65-3)	
,	

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Viscosity, kinematic 12 mm²/s Temp.: 'other:70.0°C' Parameter: 'kinematic viscosity (in mm²/s)'		
Fatty acids, C16-18 (67701-03-5)		
Viscosity, kinematic Not applicable (solid)		
calcium carbonate (471-34-1)		
Viscosity, kinematic 230.303 mm²/s		
calcium oxide (1305-78-8)		

: Very toxic to aquatic life.

#### 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term : Very toxic to aquatic life with long lasting effects.

(chronic)

Not rapidly degradable

Not rapidly degradable		
Zinc (7440-66-6)		
LC50 - Fish [1]	0.169 mg/l	
LC50 - Fish [2]	0.78 mg/l	
EC50 - Crustacea [1]	1.833 mg/l	
ErC50 algae	0.15 mg/l	
zinc oxide (1314-13-2)		
LC50 - Fish [1]	0.169 mg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, Zinc ion)	
EC50 - Crustacea [1]	0.098 mg/l	
NOEC chronic algae	0.0299 mg/l	
lead monoxide (1317-36-8)		
LC50 - Fish [1]	1170 µg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
LC50 - Fish [2]	107 μg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
ErC50 algae	388 $\mu$ g/l (OECD 201: Alga, Growth Inhibition Test, 48 h, Chlorella sp., Static system, Fresh water, Experimental value, Respiration)	
cadmium oxide, stabilized (1306-19-0)		
LC50 - Fish [1]	748 µg/l (4 day(s), Carassius auratus, Flow-through system, Fresh water, Read-across, Nominal concentration)	
ErC50 algae	0.09 mg/l	
Fluorite (CaF2) (14542-23-5)		
EC50 96h - Algae [1]	7444 mg/l Source: ECOSAR	
chalk (1317-65-3)		
LC50 - Fish [1]	> 10000 mg/l (96 h, Oncorhynchus mykiss, Literature)	
EC50 - Crustacea [1]	> 1000 mg/l (48 h, Daphnia magna, Literature)	
EC50 72h - Algae [1]	> 200 mg/l (Desmodesmus subspicatus, Literature)	
talc (14807-96-6)		
LC50 - Fish [1]	89581 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)	
EC50 96h - Algae [1]	7203 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)	

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calcium oxide (1305-78-8)	
LC50 - Fish [1]	387 mg/l Test organisms (species): Poecilia reticulata
EC50 - Crustacea [1]	≥ 159.6 mg/l (EPA OPP 72-2, 24 h, Crustacea, Static system, Fresh water, Experimental value, Lethal)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	1130.3 mg/l Test organisms (species): Navicula seminulum
NOEC chronic fish	100 mg/l Test organisms (species): other:Tilapia nilotica Duration: '46 d'
calcium carbonate (471-34-1)	
LC50 - Fish [1]	> 100 % (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Saturated solution)
EC50 - Crustacea [1]	> 100 % (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Saturated solution)
EC50 72h - Algae [1]	> 14 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	22000 mg/l Source: Ecological Structure Activity Relationships
Calciumhydroxide(Ca(OH)2) (1305-62-6	0)
LC50 - Fish [1]	50.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	49.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	184.57 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
silicon dioxide, amorphous (7631-86-9	)
LC50 - Fish [1]	> 10000 mg/l (96 h, Brachydanio rerio, Literature)
EC50 - Crustacea [1]	> 10000 mg/l (24 h, Daphnia magna, Literature)
EC50 72h - Algae [1]	440 mg/l (Selenastrum capricornutum, Literature, Growth rate)
Fatty acids, C16-18 (67701-03-5)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 4.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0.9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	> 0.22 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	> 0.22 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
12.2. Persistence and degradability	
zinc oxide (1314-13-2)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
lead monoxide (1317-36-8)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
cadmium oxide, stabilized (1306-19-0)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

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chalk (1317-65-3)	
Persistence and degradability	Biodegradability in soil: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
mica (12001-26-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
talc (14807-96-6)	
Persistence and degradability	Biodegradability in soil: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
calcium oxide (1305-78-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
calcium carbonate (471-34-1)	1 21
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
magnesium oxide (1309-48-4)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
quartz, 1%≤conc respirable crystalline silica<	10% (14808-60-7)
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Calciumhydroxide(Ca(OH)2) (1305-62-0)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
silicon dioxide, amorphous (7631-86-9)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
Zinc (7440-66-6)	110
BCF - Other aquatic organisms [1]	116
Partition coefficient n-octanol/water (Log Pow)	-0.47
zinc oxide (1314-13-2)	4.50 (Fatimated value)
Partition coefficient n-octanol/water (Log Pow)	1.53 (Estimated value)

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zinc oxide (1314-13-2)		
Bioaccumulative potential	Slightly or not bioaccumulative.	
lead monoxide (1317-36-8)		
Bioaccumulative potential	Bioaccumulative potential.	
cadmium oxide, stabilized (1306-19-0)		
BCF - Fish [1]	1385 (92 day(s), Salmo salar, Flow-through system, Fresh water, Read-across, Fresh weight)	
Bioaccumulative potential	Slightly or not bioaccumulative.	
mica (12001-26-2)		
Bioaccumulative potential	No bioaccumulation data available.	
talc (14807-96-6)		
BCF - Other aquatic organisms [1]	3.162 l/kg (BCFBAF v3.01, Fresh water, QSAR)	
Partition coefficient n-octanol/water (Log Pow)	-9.4 (QSAR, KOWWIN, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
calcium carbonate (471-34-1)		
Partition coefficient n-octanol/water (Log Pow)	-2.12 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
magnesium oxide (1309-48-4)		
Bioaccumulative potential	Not applicable.	
quartz, 1%≤conc respirable crystalline silica<	10% (14808-60-7)	
Bioaccumulative potential	Bioaccumulation unlikely.	
Calciumhydroxide(Ca(OH)2) (1305-62-0)		
Bioaccumulative potential	Not bioaccumulative.	
silicon dioxide, amorphous (7631-86-9)		
Bioaccumulative potential	Not bioaccumulative.	
12.4. Mobility in soil		
zinc oxide (1314-13-2)		
Surface tension	Not applicable	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.2 (log Koc, Literature study)	
lead monoxide (1317-36-8)		
Ecology - soil	Adsorbs into the soil.	
cadmium oxide, stabilized (1306-19-0)		
Surface tension	No data available	
Ecology - soil	Adsorbs into the soil.	
chalk (1317-65-3)		
Ecology - soil	No (test) data on mobility of the substance available.	
mica (12001-26-2)		
Ecology - soil	No (test) data on mobility of the substance available.	
talc (14807-96-6)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.5 (log Koc, SRC PCKOCWIN v2.0, QSAR)	

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calcium oxide (1305-78-8)		
Ecology - soil	ogy - soil No (test) data on mobility of the substance available.	
calcium carbonate (471-34-1)		
Mobility in soil 4.971 Source: Quantitative Structure Activity Relation		
Ecology - soil	Adsorbs into the soil.	
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)		
Ecology - soil	ology - soil Low potential for mobility in soil.	
Calciumhydroxide(Ca(OH)2) (1305-62-0)		
Ecology - soil	Adsorbs into the soil.	
silicon dioxide, amorphous (7631-86-9)		
Ecology - soil	No (test) data on mobility of the substance available.	

#### 12.5. Results of PBT and vPvB assessment

Component	
Zinc (7440-66-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
zinc oxide (1314-13-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
lead monoxide (1317-36-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
cadmium oxide, stabilized (1306-19-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
chalk (1317-65-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
mica (12001-26-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
talc (14807-96-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
calcium oxide (1305-78-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
calcium carbonate (471-34-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
magnesium oxide (1309-48-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Calciumhydroxide(Ca(OH)2) (1305-62-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
silicon dioxide, amorphous (7631-86-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc)	Environmentally hazardous substance, solid, n.o.s. (CONTAINS : Zinc)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc)
Transport document descr	iption			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (CONTAINS : Zinc), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc), 9, III
14.3. Transport hazard	class(es)			
9	9	9	9	9
	**************************************	**************************************	***************************************	
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	on available			
14.6. Special precautions	s for user			

## Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3
Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions : T1, BK1, BK2, BK3

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V13

Special provisions for carriage - Bulk (ADR) : VC1, VC2

Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.)

Orange plates :

90

: TP33

Tunnel restriction code (ADR)

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EAC code : 2Z

Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP03

Packing instructions (IMDG) : LP02, P002
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Stowage category (IMDG) : A

Stowage and handling (IMDG) : SW23

Air transport

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y956

PCA limited quantity max net quantity (IATA) : 30kgG

PCA packing instructions (IATA) : 956

PCA max net quantity (IATA) : 400kg

CAO packing instructions (IATA) : 956

CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T\* B\*\*

Equipment required (ADN) : PP, A\*\*\*

Number of blue cones/lights (ADN) : 0

Additional requirements/Remarks (ADN) : \* Only in the molten state. \*\* For carriage in bulk see also 7.1.4.1. \*\* \* Only in the case of

transport in bulk.

: TP33

Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3
Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T1, BK1, BK2, BK3

Portable tank and bulk container special provisions

(RID)

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W13

Special provisions for carriage – Bulk (RID) : VC1, VC2

Special provisions for carriage - Loading, : CW13, CW31

unloading and handling (RID)

Colis express (express parcels) (RID) : CE11

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Hazard identification number (RID) : 90

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Lead monoxide (lead oxide) (EC 215-267-0, CAS 1317-36-8), Cadmium oxide (EC 215-146-2, CAS 1306-19-0)

#### **PIC Regulation (Prior Informed Consent)**

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): lead monoxide (1317-36-8), cadmium oxide (non-pyrophoric) (1306-19-0)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information			
Abbreviations and	Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		

# Safety Data Sheet

Abbreviations and acronyms:	
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:		
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
H360Df	May damage the unborn child. Suspected of damaging fertility.	
H361f	Suspected of damaging fertility.	
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1A	Reproductive toxicity, Category 1A
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.